# **ATTACHMENT B**

# NIH/NIDCR CONSENSUS DEVELOPMENT CONFERENCE (CDC) ON CARIES

## SUBSECTION ON SALIVA AS A RISK FACTOR IN CARIES

### **DATA EXTRACTION FORM**

Reviewer ID (	(please circle):	FO CL	Other (please	indicate initials	):			
Year of Public	cation:	_ Artic	cle Unique Identifi	er:				
Authors' Nam	es (in the Eviden	ce Tables list t	he name of first a	uthor followed b	y et al.):			
Journal:				Volume & Pa	ges:			
Article Initially	Screened (by CL	₋) via Abstract	/Title (please circl	e):Yes No	[Stop if I	No]		
	Inclusion Criteria sion Criteria: Hum				les in Englisl	n; Year 1986 d	or later	
Source of Dat	ta Extraction (plea	ase circle):	Used Article	Used	Abstract			
STUDY DESC	CRIPTION							
	(please circle): Most articles will b				Treatme	nt/Therapy	Prevention	
Article Type (	please circle):	Original Rep	ort (comparative	study) Or	iginal Repo	rt (non-comp	parative study)	
		Abs	tract/Proceedings	Review/Mo	nograph	Letter to E	ditor/Editorial	
		eneral Descri				<u>lease circle):</u> Clinical Trial		
II-1	(Intervention St	udies, partial c	or no randomizatio	on) Non-Random	ized Contro	olled Clinical	Trial (CCT)	
II-2	(Analytic/Longito	udinal, with co	ntrols)	Cohort (longi	tudinal) Stu	dy; Case-Co	ontrol Study	
II-3	(Multiple cross-s	sectional sam	olings)	Multiple Time	Series Stu	dy		
III	(Descriptive Stu	dies-in vivo or	in situ)	withon Case Report/ Report of Exp Opinions of F Clinical Expe Studies using conta with i subje In vitro-forme	mation on out comparis Series; pert Commi Respected A rience g artificial in aining teeth nformation ects & comp d pellicle, v	caries sta son group ttee; Authorities; traoral applia or tooth com on caries sta parison group	ances apponents, atus of o	ts &

(Descriptive Studies-Laboratory (in vitro) or Animal) Descriptive Characterization, without information on caries status of subjects & comparison group

Studies using artificial intraoral appliances containing teeth or tooth components, without information on caries status of subjects & comparison group

In vitro-formed pellicle, without information on caries status of subjects & comparison group

Exclusively Biochemical/Biophysical Study Exclusively Cell/Tissue Culture Study
Animal Study; Comparative Zoology Study

Notes:

1) Case-Control studies are those which start with the identification of persons with a disease of interest (i.e., caries) and a control or comparison group without the disease; the relationship of an attribute to the disease is examined by comparing diseased and non-diseased persons with regard to the frequency or levels of the attribute in each group

Other

- 2) Cohort studies are those in which subsets of a defined population are identified; these groups may or may not be exposed to factors hypothesized to influence the probability of the occurrence of a particular disease or other outcome; cohorts are defined populations which, as a whole, are followed in an attempt to determine distinguishing subgroup characteristics
- 3) Studies of Grade IV are generally excluded from analysis; to be included, descriptive studies should meet a minimum quality standard based upon the criteria for evaluation (e.g., presence of a comparison group, control for confounding factors, internally valid, etc.)

#### STUDY SUBJECTS CHARACTERISTICS/DEMOGRAPHIC INFORMATION

Source of Sample and Country:	Race/Ethnicity/National Origin:
Age(s) of Sample(s): Mean Age ( <u>+</u> SD):	Age Range: No Data
Number of Subjects by Gender: Females:	Males: Total: No Data
Number of Subjects in each Group: High Carie  Comment: "High" and "Low" defined as	s Risk/Response: Low Caries Risk/Response:
Other Demographic Information:	
STUDY CHARACTERISTICS	
Funding Source (please circle): Government	Industry/Pharmaceutical Private Unfunded No Data
Study Setting (please circle): University Pr	ivate Office Hospital Nursing Home/Assisted Living
Community/Go	vernment Clinic Community Dwelling Other No Data
Number of Study Arms: Multice	nter (please circle): Yes No (if Yes, # centers:)
Length of the Study:	

Sampling Method (please indicate how/why subjects were chos	en): (circle here if Unspecified/No Data)
Response Rate (please indicate the number or percent of study):	subjects contacted who consented to participate in
Training of Examiners (please indicate the number of examiners	s and if/how they were trained for the study):
Reliability of Examiners (please indicate if examiner reliability w	as described):
Intra-examiner reliability of caries assessment was mea (if Yes, indicate: Kappa value_	sured (please circle): Yes No Unclear or Percent agreement or Other)
Inter-examiner reliability of caries assessment was mea (if Yes, indicate: Kappa value_	sured (please circle): Yes No Unclear or Percent agreement or Other)
Intra-examiner reliability of saliva assessment was mea (if Yes, indicate: Kappa value_	sured (please circle): Yes No Unclear or Percent agreement or Other)
Inter-examiner reliability of saliva assessment was mea (if Yes, indicate: Kappa value_	sured (please circle): Yes No Unclear or Percent agreement or Other)
Other Relevant Data (e.g., questionnaires, other demographic d	, , , , , , , , , , , , , , , , , , , ,
Controls for Confounding Factors (please circle):Yes No	(If Yes, please describe):
Blinding of Examiners (please circle): Yes No	
Blinding of Patients (please circle): Yes No	
Number of Lost Subjects (please indicate number of subject other):	ets lost and reasons e.g., withdrawals, non-respond
Statistics/Method of Data Analysis (please indicate):	<del>-</del>
CARIES STATUS ASSESSMENT	
Criteria for Detection and Monitoring of Dental Caries (please in <b>Notes:</b> 1) These generally include evidence of advancement vs. advanced, NIDCR criteria, WHO criteria, other contents.	t from early caries, to cavitation, to tooth loss; early
2) If Unknown/No Data, indicate "ND" next to appro	priate entry below
Tooth/Dentition Type (please circle all that apply):	Primary Permanent Mixed Exogenous Tooth Block Other
Caries Scoring Method (please circle all that apply):	DMFS DMFT dmfs dmft Missing CI Other
Caries Detection Method (please circle all that apply):	Clinical Examination Radiographs Laboratory Other
Caries Process Described (please circle all that apply):	Cavitated Lesion Demineralization

Caries Extent (please circle all that apply): Into Enamel Into Dentin Into Cementum

Caries Location (please circle all that apply): Crown Root Exogenous Tooth Block

Caries Risk Assessment Indicators Used (please indicate):

Notes: 1) These generally include both subjective and objective measures

2) If Unknown/No Data, indicate "ND" next to appropriate entry below

Subjective (please circle all that apply): Subject Self-reported Symptoms

Non-validated Questionnaire (incl. oral habits, SES, etc.)

Other

Objective (please circle all that apply): Clinical Judgment Based on Dental Examination (clinical

and/or radiographic)

Validated Questionnaire (incl. oral habits, SES, etc.) Salivary Test (incl. flow rate, buffer capacity, pH,

Dentobuff Strip®, etc.)

Microbiology (incl. microbial counts, mutans streptococci, Dentocult SM®, lactobaccilli, Dentocult LB®, etc.)

Other\_\_\_\_

Risk Category Defined for Test/Experimental Group(s) (please circle): No/Low Moderate High

(aka: Caries-resistant; Caries-susceptible;

Caries-free; Caries-active)

Risk Category Defined for Comparison/Control Group(s) (please circle): No/Low Moderate High

(aka: Caries-resistant; Caries-susceptible;

Caries-free; Caries-active)

Clinical Decision Making for each Group of Caries Risk Status (please indicate):

Notes: 1) These generally describe the kind of preventive or therapeutic intervention applied to each test or control

group following the assessment of risk; not all studies will report this

2) If Unknown/No Data, indicate "ND" next to appropriate entry below

For No/Low Risk Test/Experimental Group(s) (please circle): No Change in Preventive Regimen

Basic/Simple Preventive Regimen Intensive Preventive Regimen

For Moderate Risk Test/Experimental Group(s) (please circle): No Change in Preventive Regimen

Basic/Simple Preventive Regimen Intensive Preventive Regimen

For High Risk Test/Experimental Group(s) (please circle): No Change in Preventive Regimen

Basic/Simple Preventive Regimen Intensive Preventive Regimen

For No/Low Risk Comparison/Control Group(s) (please circle): No Change in Preventive Regimen

Basic/Simple Preventive Regimen Intensive Preventive Regimen

For Moderate Risk Comparison/Control Group(s) (please circle): No Change in Preventive Regimen

Basic/Simple Preventive Regimen Intensive Preventive Regimen

For High Risk Comparison/Control Group(s) (please circle): No Change in Preventive Regimen

Basic/Simple Preventive Regimen Intensive Preventive Regimen

#### SALIVA STATUS ASSESSMENT

Description of Risk for Caries as Related to Saliva (please circle):

Article Describes Evidence for a Protective Effect of Saliva against Caries (i.e., host defense)

Article Describes Evidence for No Effect of Saliva against Caries

Article Describes Evidence for a Caries-promoting Effect of Saliva

Description of Salivary Physiology (please circle all that apply)

Normal Physiology Reduced Quantity/Hypofunction/Xerostomia Altered Quality Increased Quantity/Hyperfunction Unspecified/No Data

Reason for Reduced Quantity and/or Altered Quality of Saliva (please indicate):

Notes: 1) These generally describe any number of changes in saliva resulting from systemic diseases, drugs,

environmental factors and other subject-specific influences

2) If Unknown/No Data, indicate "ND" next to appropriate entry below

Disease-Related (please circle all that apply): Sjogren's Syndromes

1°=KCS and xerostomia w/o other major CT disease 2°= " or " with " " " (e.g.

RA, SLE, Primary Biliary Cirrhosis,

Scleroderma)

Crohn's Disease

Radiotherapy affecting Salivary Glands Chemotherapy affecting Salivary Glands

Surgery affecting Salivary Glands

Agenesis/Hypogenesis of Salivary Glands

Other Exocrinopathy Anorexia Nervosa Bulimia Nervosa Chronic Malnutrition

Other\_

Medication/Drug-Related (please circle all that apply): Anti-hypertensive agents

Anti-psychotic/psychotropic agents

Anti-secretogogues

Other

Other Subject-Related (please circle all that apply): Stress

Smoking Diet Age Gender Ethnicity

Other\_

Form of Saliva Evaluated (please circle): In Solution/Free Surface-adsorbed/Bound (i.e., pellicle)

Source of Saliva Evaluated (please circle):

Whole Saliva (also circle whether: \*Stimulated or Unstimulated)

\* Please also note if stimulation is masticatory or gustatory.

Parotid Gland Secretion (also circle whether: Stimulated or Unstimulated)

Submandibular/Sublingual Gland Secretion (also circle whether: Stimulated or Unstimulated)

Minor Gland Secretion (also circle whether: Stimulated or Unstimulated)

Type of Salivary Function Evaluated (please circle):

General Protective/Lubrication

Microbial Agglutination/Binding and Clearance

Microbial Colonization/Adherence to Tooth Surfaces

Microbial Growth-promoting or inhibiting/Microbial Nutrition (incl. enzymatic activities)

Microbicidal/Microbistatic Effects

Control of Demineralization/Remineralization

Inter-individual Transmissibility of Microbiota

Unspecified

Individual Salivary Characteristics Evaluated (please indicate):

Notes: 1) These generally describe any number of physical and chemical aspects of saliva

2) If Unknown/No Data, indicate "ND" next to appropriate entry below

Physical Aspects(please circle all that apply): Flow Rate/Amount

Salivary Film Velocity

Food/Nutrient/Microbial Clearance Rate

Site-specific Presence

Other

Chemical Aspects-Electrolytes/Small Molecules:

(please circle all that apply)

**Buffer Capacity** 

рН

Simple Carbohydrates

Electrolytes
Trace Elements
Calcium level
Phosphate level
Sodium level
Chloride level
Carbonate level
Bicarbonate level
Urea level
Fluoride level
Copper level
Zinc level

Magnesium level Manganese level Iron level Selenium level

Other

Chemical Aspects-Macromolecules Macromolecules

(please circle all that apply)

Macromolecules

Proteins/Glycoproteins/Phosphoproteins Lipids/Glycolipids/Phospholipids/Lipoproteins

Complex Carbohydrates

Enzymes Ionophores

Immune components
Non-immune components

Acidic proteins Basic proteins Amylase

Proline-rich proteins (PRPs)

Relatior	ship Evaluated Between Individual Salivary C	characteristics and Which	of the Followi	ng (please indicat	e):
	In Vivo Caries (e.g., DMFS)/Demineralization	/Remineralization in subje	cts [Ind	clude]	
	In Situ/Ex Vivo Caries (e.g., DMFS)/Deminera	alization/Remineralization		cclude if there is no mparison group]	)
	In Vitro Caries (e.g., DMFS)/Demineralization	/Remineralization [Exclu	de]		
	Animal Caries (e.g., DMFS)/Demineralization	/Remineralization [Exclu	de]		
STUDY	FINDINGS/OUTCOMES				
	esponse Variable (e.g., caries prevalence; DFS, DS		ent over time or	e, etc. expressed	as DMFS othe
Finding	s (e.g., statistical measures of central tend likelihood ratios, sensitivity, specificity, or other				
Type of	Association (please indicate): Linear, Posit			reshold	- - -
Descrip	tion of Intra- or Intersubject Variations in Saliv	ary Characteristics (please	e describe):_		_ 
Applical	oility of Findings (please indicate): To Ir	ndividual Subjects T	o Population	Groups Unc	— ertain
AUTHO	RS' CONCLUSIONS				
	ndicate the conclusion(s) reported by the auth	nors:		····	

# **COMMENTS BY EXTRACTOR**

Please indicate any further comments, notes or observations:			
Do investigators need to be contacted for more information? (please circle):  data should be obtained?)	Yes	No	(if Yes, what